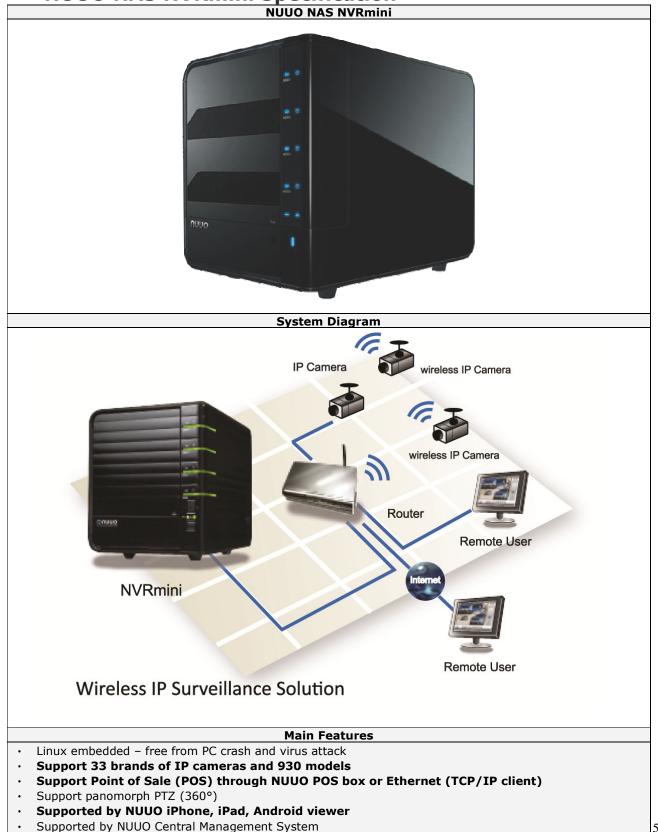


NUUO version 2.6.0_release date_April 06, 2011

NUUO NAS NVRmini Specification



NVRmini Specification

NUUO version 2.6.0_release date_April 06, 2011



- Support joystick for easier camera controlling
- Server-client architecture
- Web-based management (Recommend on IE7 or above)
- Online GUI recording schedule
- Support megapixel camera and H.264 compression format
- Up to 128 channels live display on multiple monitors
- Multiple camera streams to display in LiveView for lower bandwidth limitation
- Support E-map with device indicator
- Playback system with 5 intelligent search
- Remote I/O solution and camera I/O integration
- External storage Up to 16TB total recording space¹
- RAID 0,1,5,5+spare and 10, prevention of data loss

		Spec	ificati	ions			
Model	NV-2020/NV-2	2040	N	V-4080/NV-41	.60	NV-4	080S/NV-4160S
Recording Cameras	1~2(4) ² / 1~	-4		1~8 / 1~16			1~8 / 1~16
Playback channels	2(4) / 4			8 / 4			8 / 16
Number of Drives	2xSATA II		4xSATA II			4xSATA II	
Max Storage of	2TB		2TB		2TB		
Compatible HDD							
RAID Level	RAID 0,1		RAID 0, 1, 5, 10		RAID 0, 1, 5, 10		
I/O Interface	1xUSB 2.0 (for	UPS)	2	xUSB 2.0 (for U	PS)	1xeS	SB 2.0 (for UPS); ATA (for external torage ³ : DAS)
LAN Transmission Speed			10/1	.00/1000 Mbps (RJ45)		
Voltage	100-240V			100-230V			100-230V
Power Consumption	39W ⁴			56.3W ⁵			72W ⁶
Device Dimension	92.0 x 145.2 x 21	3.2 mm	188.	2 x 152.5 x 227			x 152.5 x 229.6 mm
Device Weight (without drive)	1.0 kg (2.2lb	s)	2.5 kg (5.5lbs)		2.5 kg (5.5lbs)		
Temperature			Opera	ating: 5°C-35°C	(±5°C)		
Humidity	Operating: 10%-85%						
Supported IP Camera Brand(s): 33 brands in v2.6	AXIS	Panaso ideas for		SONY	'¥vr	VOTEK	
	Arecont Vision respirat technology Report Imagination	SAN	YO		BASI	ER 7	BOSCH
	Brick com	ultu cisc		TECHNOLOGY M.		ink eta For Pagie	
	🗲 епео	FIN	E	HIKVISION	Hone	ywell	Qin Vision @
	level one	LINKS	Y8 '	KLumenera [.]	M	MOBOTIX.	ΟΠνιε
	PIXORD	SAMSU	ING	SANTEC	<u>StarDo</u>	×	TOSHIBA
	TRUEN	Video	sec	ZAVIG			

¹ External storage, available in FW v2.6, is designed for NV-4080S/4160S

- ² NV-2020 can possess up to 4ch capacity with license activation
- ³ Check the compatibility list for the compatible DAS model
- ⁴ 60 W is the maximum power consumption; 39W is 2bays with 250GB disk array (running)

⁶ 72 W is the maximum power consumption

⁵ 72 W is the maximum power consumption; 56.3 W is 4 bays with 1TB disk array (running)



NUUO version 2.6.0_release date_April 06, 2011

Compression Format	MPEG4, M-JP	EG, H.264, MxPEG (depends o	on IP camera)	
Recording	Around 60fps at 1.3M	Around 75/65fps at 1.3M	Around 185/160fps at 1.3M	
Performance	Total bitrate: 20Mbps	Total bitrate: 30 / 22Mbps		
Recording Type		schedule, event trigger recor		
Remote Live View		l, patrol/focus, preset set/go,		
Control	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,	
Audio & Video	Audio a	nd video recording in synchro	nization	
Recording				
POS	Liveview, record and search for every transaction			
Auto Backup	Automatically backup the recorded video of the date before to FTP server			
Intelligent Search	General motion, missing object, foreign object, lose focus, camera occlusion			
Remote Live View	Live view maxim	um 32 connections per server	at the same time	
Connection				
Supported		al Chinese, Spanish, Deutsch,		
Language		ean, Polish, Dutch, Serbian, S num Requirement	wedish, Portuguese (Brazil)	
Model	NV-2020/NV-2040	NV-4080/NV-4160	NV-4080S/NV-4160S	
OS		2-bit) / Vista (32-bit) / Win7		
CPU	Willdows XF (S	Intel Core 2 Duo, 2.6GHz		
RAM	1GB			
LAN Transmission	10/100/1000 Mbps (RJ45)			
Sneed		10,100,1000 (10,10)		
<u>Speed</u> UI	1. W		7 or 8	
<u>Speed</u> UI		eb browser: Internet Explorer		
•	2.	eb browser: Internet Explorer NUUO client application prog	ram	
•	2. 3. N	eb browser: Internet Explorer	ram	
UI	2. 3. M Techn	eb browser: Internet Explorer NUUO client application prog IUUO iPhone, iPad, Android vi ical Details	ram	
UI	2. 3. N	eb browser: Internet Explorer NUUO client application prog IUUO iPhone, iPad, Android vi ical Details	ram	
• <u>System, Sett</u>	2. 3. M Techn ing, Management an	eb browser: Internet Explorer NUUO client application prog IUUO iPhone, iPad, Android vi ical Details Id Integration	ram ewer ⁸	
UI • <u>System, Sett</u> ■ Server-Client	2. 3. M Techn ing, Management an Architecture: Centralizes all	eb browser: Internet Explorer NUUO client application prog IUUO iPhone, iPad, Android vi ical Details Id Integration video data transaction only vi	ram ewer ⁸ a NVRmini to remote clients	
• <u>System, Sett</u> • <u>Server-Client</u> With this centra	2. 3. M Techn ing, Management an Architecture: Centralizes all alized structure, total camera	eb browser: Internet Explorer NUUO client application prog IUUO iPhone, iPad, Android vi ical Details Id Integration video data transaction only vi oading remain the same level	ram ewer ⁸ a NVRmini to remote clients	
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UI	2. 3. M Techn ing, Management an Architecture: Centralizes all alized structure, total camera th maximum of remote client	eb browser: Internet Explorer NUUO client application prog IUUO iPhone, iPad, Android vi ical Details id Integration video data transaction only vi oading remain the same level access.	ram ewer ⁸ a NVRmini to remote clients , thus ensure good recording	
UI	2. 3. M Techn ing, Management an Architecture: Centralizes all alized structure, total camera th maximum of remote client n: Supports 930 IP cameras a	eb browser: Internet Explorer NUUO client application prog IUUO iPhone, iPad, Android vi ical Details id Integration video data transaction only vi oading remain the same level access.	ram ewer ⁸ a NVRmini to remote clients , thus ensure good recording	
UI	2. 3. M Techn ing, Management an Architecture: Centralizes all alized structure, total camera l th maximum of remote client n: Supports 930 IP cameras a a manufacturers. mera Model Detection: NVRI	eb browser: Internet Explorer NUUO client application prog IUUO iPhone, iPad, Android vi ical Details id Integration video data transaction only vi oading remain the same level access. nd video servers (encoders) f mini can automatically search	ram ewer ⁸ a NVRmini to remote clients , thus ensure good recording rom 33 brands of major for IP cameras in the networ	
 UI System, Sett Server-Client With this centra quality even wi Open Platform network camer Automatic Can (camera should 	2. 3. M Techn ing, Management an Architecture: Centralizes all alized structure, total camera l th maximum of remote client n: Supports 930 IP cameras a a manufacturers. mera Model Detection: NVRI I support UPnP protocol or sho	eb browser: Internet Explorer NUUO client application prog IUUO iPhone, iPad, Android vi ical Details id Integration video data transaction only vi oading remain the same level access. nd video servers (encoders) f mini can automatically search fould be implemented its search	ram ewer ⁸ a NVRmini to remote clients , thus ensure good recording rom 33 brands of major for IP cameras in the network h tool ⁹). For those	
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- Event & Action: 4 camera events including motion detection (if the camera has it), connection lost and camera input; 1 input event from remote I/O box; 3 system events and daily system report through E-mail; 3 instant alarm responses supporting output, E-mail and NUUO CMS alarm system.
- Online RAID Capacity Expansion and Level Migration: Support RAID 0,1,5,5+ spare and 10 for maximum capacity or data protection at the HDD level.

Portuguese (Brazil), Traditional Chinese, Czech, Russian, Korean, Swedish, and Polish is not supported in NVRmini NV-4080 and NV-4160

⁸ Supported IP camera brands on mobile clients: ACTi, Arecont, AXIS, Brickcom, Cisco, D-Link, Dynacolor, Eneo, Fine, Honeywell, Level One, Mobotix, Panasonic, SANTEC, Sanyo, Sony, StarDot, Toshiba, Truen, Videosec, Vivotek, Zavio

⁹ Support camera search tools of ACTi, Arecont, D-link, and Sony in v2.6



NUUO version 2.6.0_release date_April 06, 2011

- Point of Sale (POS): POS transactions received through NUUO POS box or Ethernet (TPC/IP client). POS text overlay on live view video and recordings. All recorded POS transactions are searchable in the NVRmini database.
- Multi-View: NVRmini can duplicate the same live view video onto multiple channels and digitally zone in to see the details of different spots on cloned channels without losing the original live view video.
- **I/O Event Control**: With the integration of camera I/O and NUUO I/O Box, system can start recording when input triggered, or trigger output as an event happened.
- Authorities of Different Kinds of Users: Web Viewer logins to the NAS Server via 4 different user groups: administrator, power user, user, and guest. Each user group has its own distinctive privilege in system configuration, live view camera and playback camera.
- **Joystick:** Joystick support on PTZ cameras and software enabled digital PTZ function are both available in NUUO NVR. Preset points and patrol functions are also available on many camera models.
- **E-Map:** Show device indicator on map for easily find and track device location. Furthermore, pop up map to point out the device when an event occurred.
- Log System: Hardware log keeps track of system operation; NVR log for camera status and user access; NVR event Log for special events; Export and Backup Log for exporting video or video backup action.
- **User Friendly:** Provide HELP page, on the webpage, for quick start tips and troubleshooting.

· <u>Remote Operation</u>

- Multiple Live View Channel: Up to 16 channels per in web client and 64 channels in Remote Live Viewer client (up to 128 channels on multiple monitors). In addition, Remote Live Viewer client can access and display live video from any NUUO servers (NVR, DVR, NDVR and NVRmini) simultaneously.
- **Multiple Playback Channel:** Up to 16 channels in web playback client/NUUO Playback System.
- Stream Profile: Live display multiple camera streams with lower bitrate, while still having good quality recorded videos.
- Multiple Mobile Clients: Support iPhone, iPad, and Andorid mobile live viewer.

Playback, Search, Export and Secure Data

- **Post-Recording Processing:** Intelligent search, digital PTZ and video enhancement tool.
- Intelligent Search: Search recorded video for 5 events including general motion, foreign object, missing object, loss focus and camera occlusion.
- **Video Enhancement:** Fine tune the image's visibility, sharpen, brightness, contrast or even grey scale.
- **Evidence Export:** Snapshot and print video image in BMP/ JPEG; backup video in DAT; save video in ASF/AVI. The action exporting video or video backup will be recorded in NVRmini's log system.
- Action Alert: Notify users on camera and system event through sound, digital output, E-mail and NUUO CMS alert.
- **Auto Backup:** Automatically backup the recorded video of the date before to a designated FTP server.
- Manual Backup: Manual backup or delete recordings of any NVRmini.
- **Watermark:** Protect for original recording from alternation with our watermark verification tool.

NVRmini Specification



NUUO version 2.6.0_release date_April 06, 2011

• Extended Service

NUUO Central Management System (CMS): Ultimate central monitoring solution for grand scale projects and projects with multiple sites. Fully compatible with all NUUO servers (NVR, DVR, NDVR and NVRmini).

External device

- POS Box (from serial port to Ethernet): NUUO Point of Sales system works on NVRmini by overlaying the transaction text from cash register or ATM machines onto live video channels. All POS recordings are searchable.
- Remote I/O Box: I/O signals of NUUO I/O Box are converted to Ethernet through converter, which enables NVRmini to do more sophisticated application, such as starting recording when input triggered, triggering output as an event happened, and much more.
- **Immervision Lens:** Original mode, PTZ mode, Quad mode and Perimeter mode are supported on liveview and playback. Please refer to ImmerVision's website for qualified cameras.
- **APC UPS:** Continues to feed the NVRmini power at an event of power outage.
- **Joystick:** Easier way for camera controlling.
- **DAS:** The total recording space can be up to 16TB by connecting DAS with NV-4080S/4160S.